ZENITH data systems

THE QUALITY GOES IN BEFORE THE NAME GOES ON

DESKTOP COMPUTER SYSTEMS

Z-101 SERIES USER'S GUIDE

Z-101 Series
User's Guide

595-3118

ZENITH data systems

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Zenith Data Systems Corporation
Saint Joseph, Michigan 49085

Preface

This User's Guide is a supplement to the Z-100 series manuals you received with your Z-101 series computer.

This User's Guide is divided into three parts:

- Disk Drives — This information replaces the "Disk Drives" information on pages 1.13 and 1.14 of the Z-100 User's Manual.
- Disassembly — This information replaces the disassembly information in the "Installation Manual" for any accessories you may have or may purchase in the future.
- Assembly — This information replaces the assembly information in the "Installation Manual" for any accessories you may have or may purchase in the future.

Except as noted above, all the information in the Z-100 User's Manual and other Z-100 series manuals applies to the Z-101 series computers.

NOTE: The disk drives shown in this manual are typical of the type supplied in the Z-101 series computers. The drives in your unit may be different.

Contents

Disk Drives 1

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Assembly 11

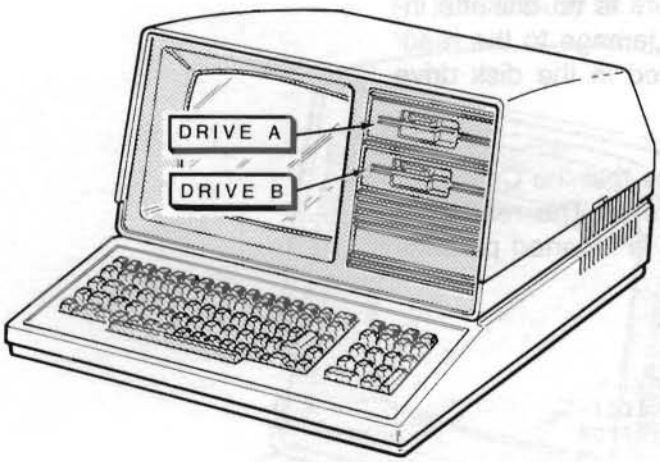
Disk Drives

Look at the disk drives. They are storage devices designed to transfer information into and out of your Computer's memory. Refer to Pictorial 1A for the all-in-one model and Pictorial 1B for the low-profile model.

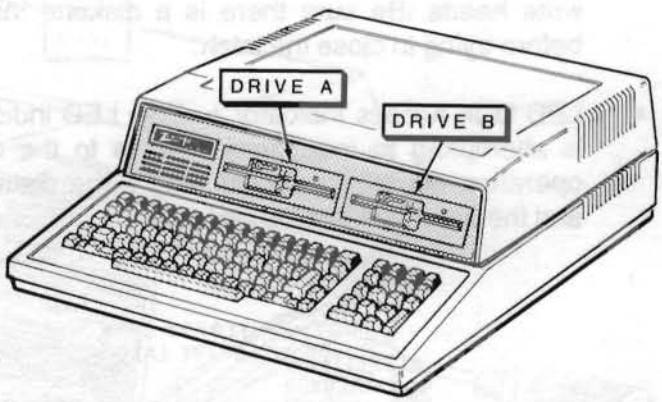
- Disk Drive Positions — One or two disk drives are included with your Desktop Computer. For dual-drive systems on the all-in-one model, the top disk drive is referred to as Drive A and the bottom one is Drive B. On the low-profile model, the left disk drive is Drive A and the right one is Drive B.

If your Desktop Computer has only one disk drive, it will be known as Drive A, regardless of its position in either the low-profile or all-in-one model.

The Drive names, A and B, are arbitrary with the Disk Operating System. The systems supplied with your Desktop Computer use the names illustrated here. Other operating systems may refer to the drives by other means. Consult the documentation supplied with those systems for the names of the drives (Drive A will be the lowest named drive; Drive B, the next).



Pictorial 1A
All-in-one model



Pictorial 1B
Low-profile model

Disk Drives

Refer to Pictorial 2 for the following Discussion:

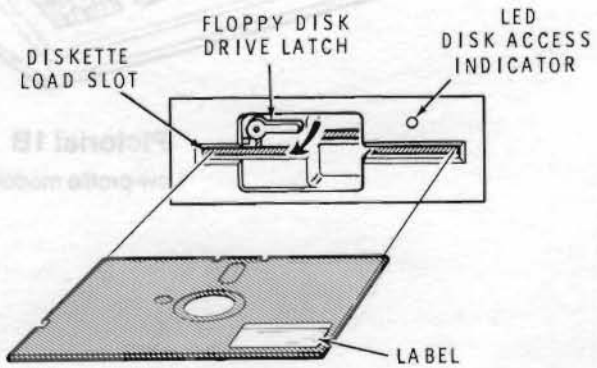
Pictorial 2 shows a typical disk drive. The disk drives in your unit may look slightly different.

- Diskette Load Slot — Insert diskettes in this slot with the label up and toward you as shown in the Pictorial. If the diskette is not oriented as shown, the unit will not operate properly and you may damage the diskette and/or the disk drive. If the diskette meets resistance while you are inserting it into the drive, check to make sure that there is not a diskette already in the drive. It should slide smoothly into the drive.

- Disk Drive Latch — This latch secures the diskette in the disk drive. Closing the latch engages the drive hub into the diskette and brings the read/write heads into contact with the disk surface. If the latch shuts with difficulty, remove the diskette, inspect the large center hole for damage, check for proper diskette orientation (see the previous description), and try again.

  NOTE: Many types of disk drives are equipped with a locking system that prevents the latch from being closed if there is no diskette inserted in the drive. This is to prevent possible damage to the read/write heads. Be sure there is a diskette inserted in the disk drive before trying to close the latch.

- LED Disk Access Indicator — This LED indicates that the Computer is attempting to read from or write to the diskette. The read/write operation will be successful only if the diskette is inserted properly and the disk drive latch is closed.



Pictorial 2
Disk drive components

Disassembly

The following disassembly instructions apply to the all-in-one model of the Z-101 (with built-in display). If you have the low-profile model, proceed to "Disassembly (Low-Profile Models)" on Page 6.

NOTE: The disk drives shown in the illustrations in this Manual are typical of the ones being supplied in the Z-101 series Computers. However, the location of the flat cable connector and power connector may vary slightly from the locations shown.

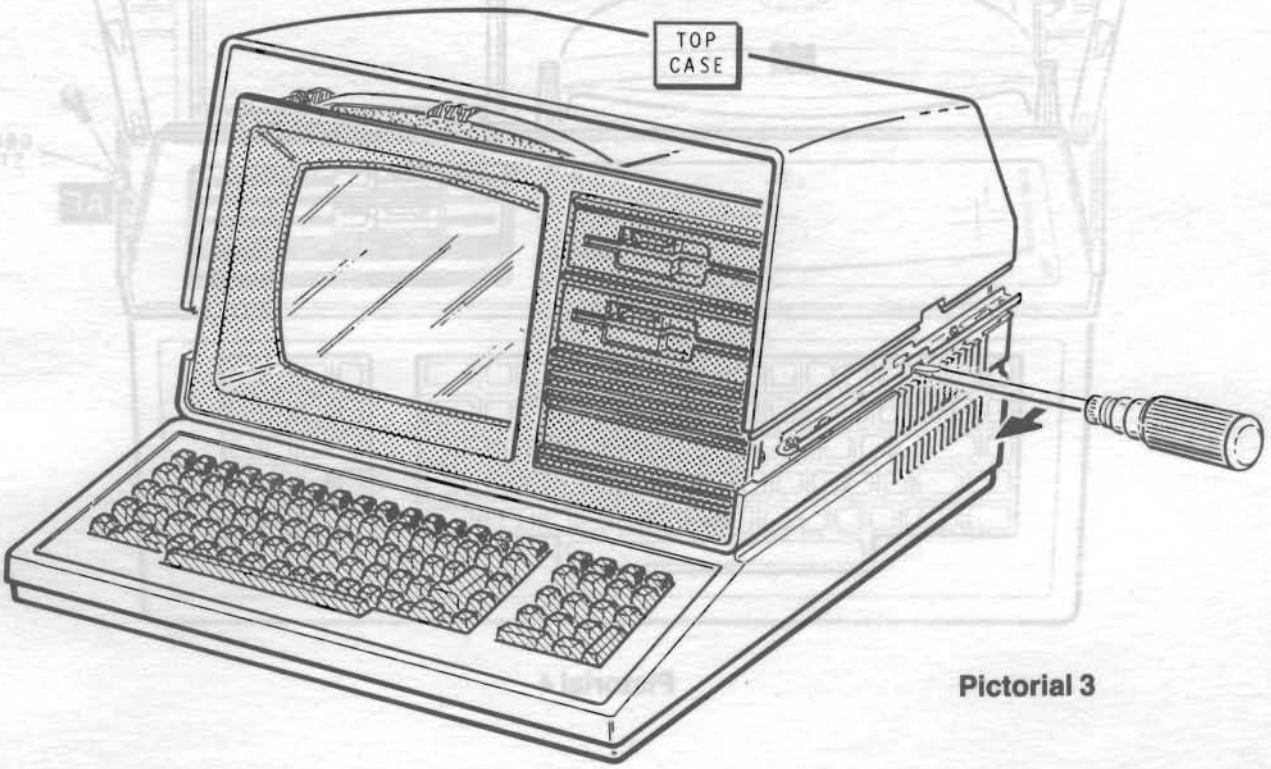
ALL-IN-ONE MODELS

WARNING: When the line cord is connected to an AC outlet, hazardous voltages can be present inside your Computer.

( ) Unplug the line cord from the AC outlet.

( ) Refer to Pictorial 3. Using a small flat-blade screwdriver, move the metal slides all the way to the front and then 1/4" to the back as shown.

( ) Carefully lift the top case straight up and set it to one side.



Pictorial 3

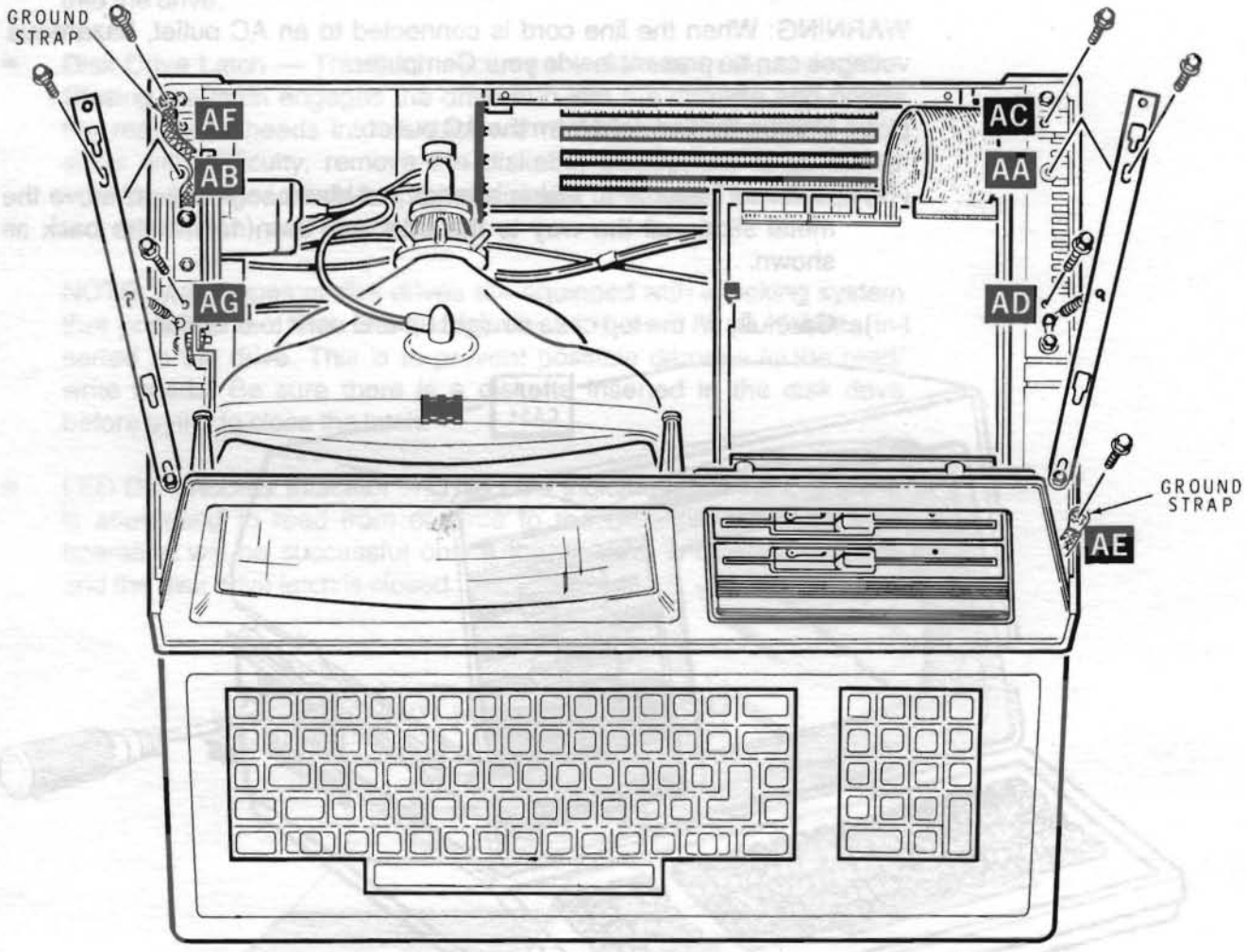
Disassembly

( ) Refer to Pictorial 4 and remove the back screws at positions AA and AB that hold each latching slide.

( ) Pivot each latching slide out as shown.

( ) Remove the five screws at positions AC, AD, AE, AF, and AG. Note the position of the ground straps at AE and AF (if present).

( ) Carefully lift the drive/video subassembly up and to the front of the Computer about 4 to 5 inches, and set it back down gently. Rest the subassembly here for the following steps.



Pictorial 4

Disassembly

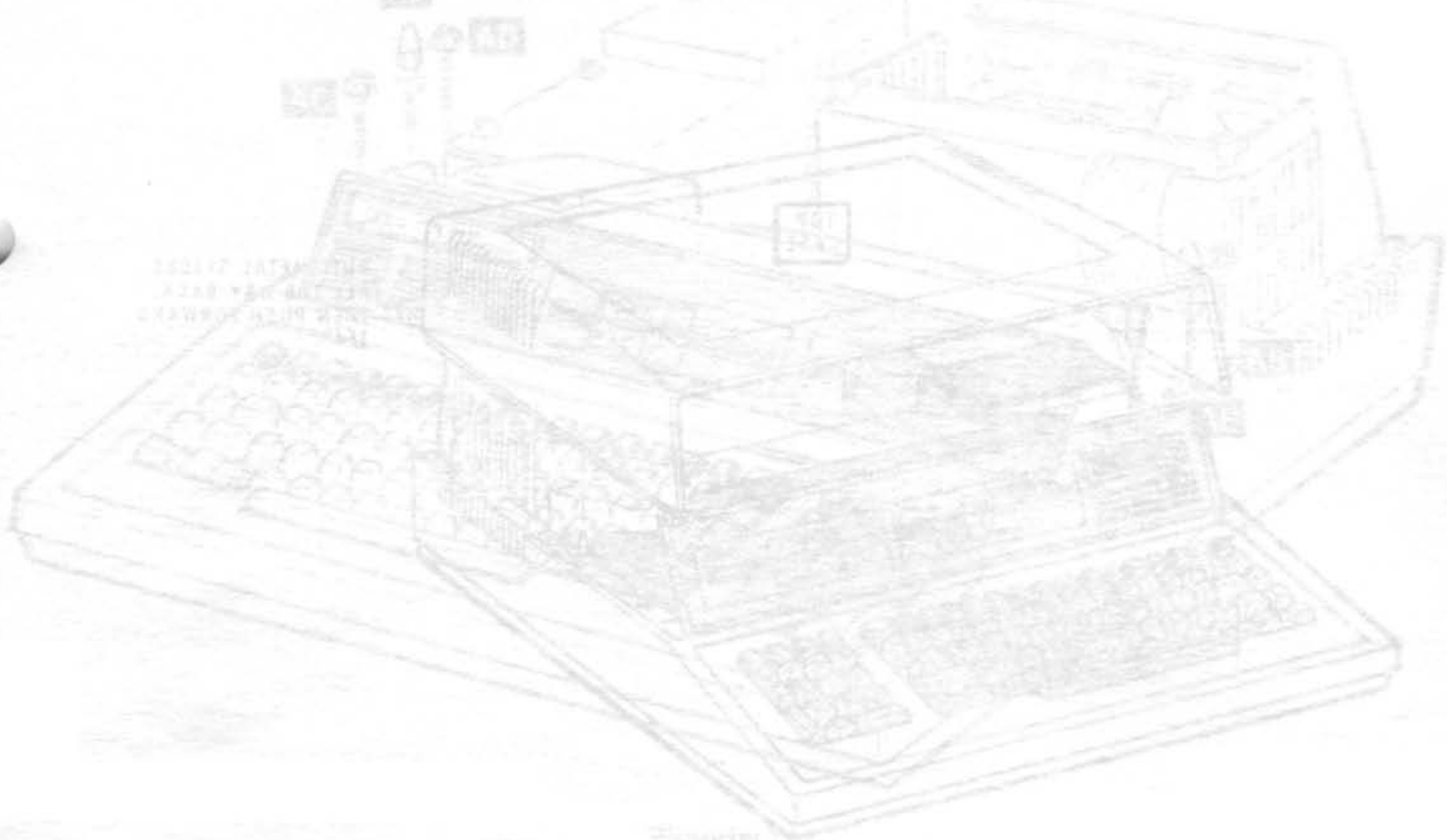
( ) Refer to Pictorial 5 (fold-out from Page 9) and carefully unplug the signal/power cable from the video circuit board.

( ) Carefully unplug the flat cable from the disk drives as shown in the Pictorial.

( ) Carefully unplug the power cables from each disk drive.

( ) Remove the drive/video subassembly and set it to one side.

Proceed to "Final Disassembly (Both Models)" on Page 9.



Disassembly

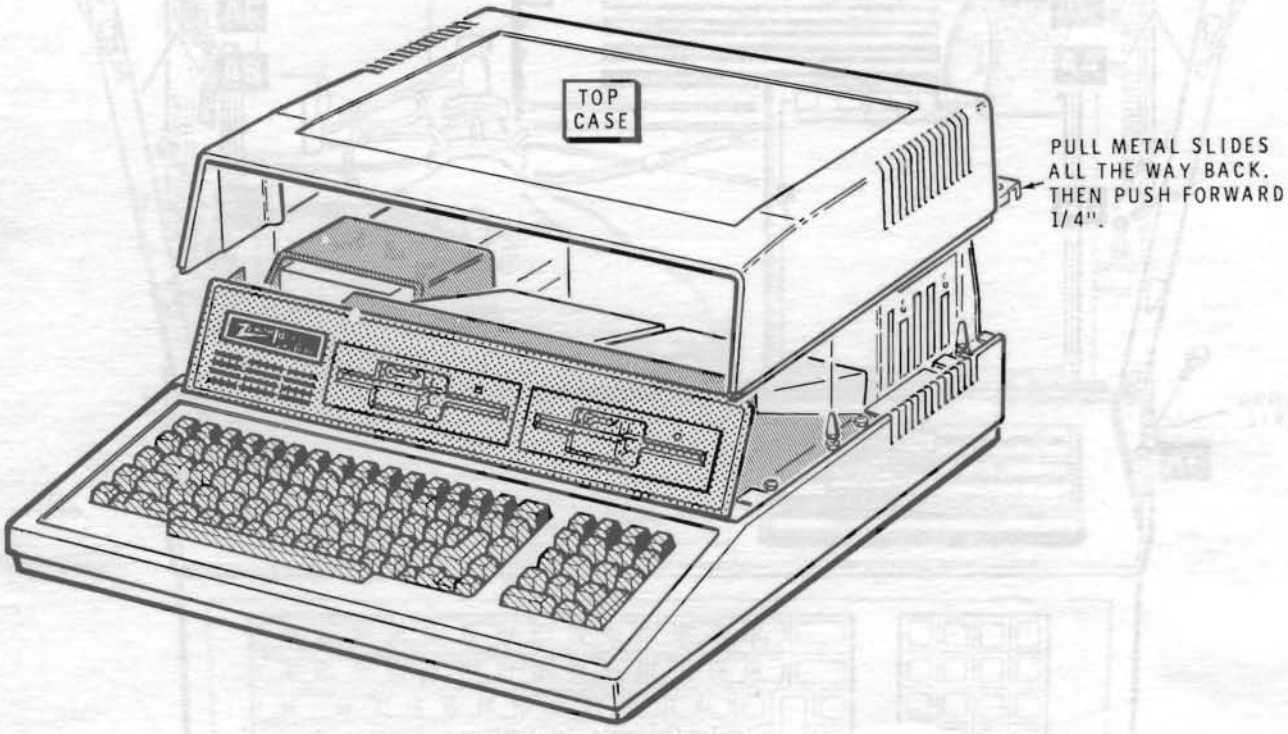
LOW-PROFILE MODELS

WARNING: When the line cord is connected to an AC outlet, hazardous voltages can be present inside your Computer.

( ) Unplug the line cord from the AC outlet.

( ) Refer to Pictorial 6. Pull the metal slides all the way to the back and then push them 1/4" to the front as shown.

( ) Carefully lift the top case straight up and set it to one side.



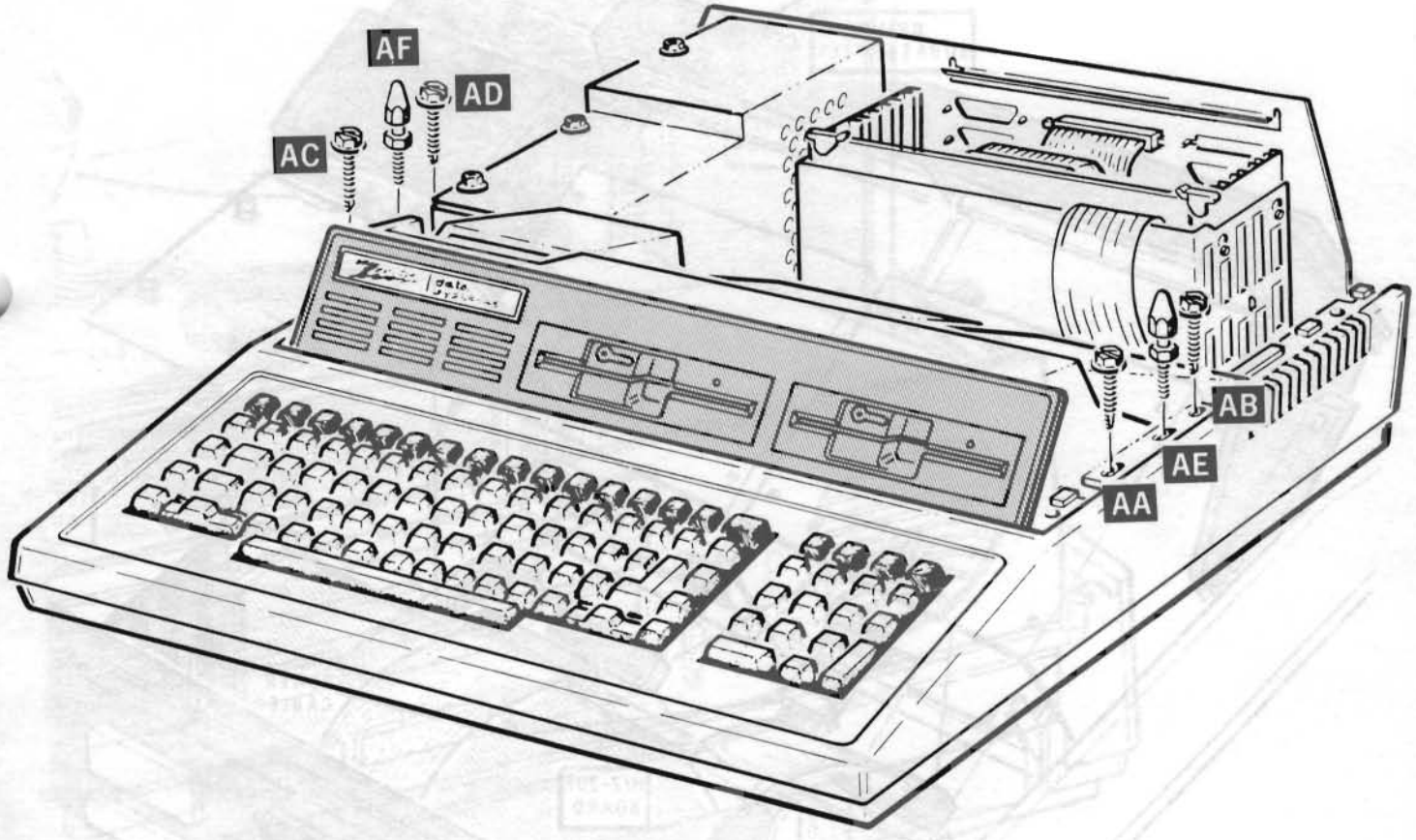
Pictorial 6

Disassembly

( ) Refer to Pictorial 7 and remove the four screws at positions AA, AB, AC, and AD.

( ) Remove the two locking pins at AE and AF.

( ) Carefully lift the drive subassembly up and to the front of the Computer about 2 inches, and set it back down gently. Rest the subassembly here for the following steps.



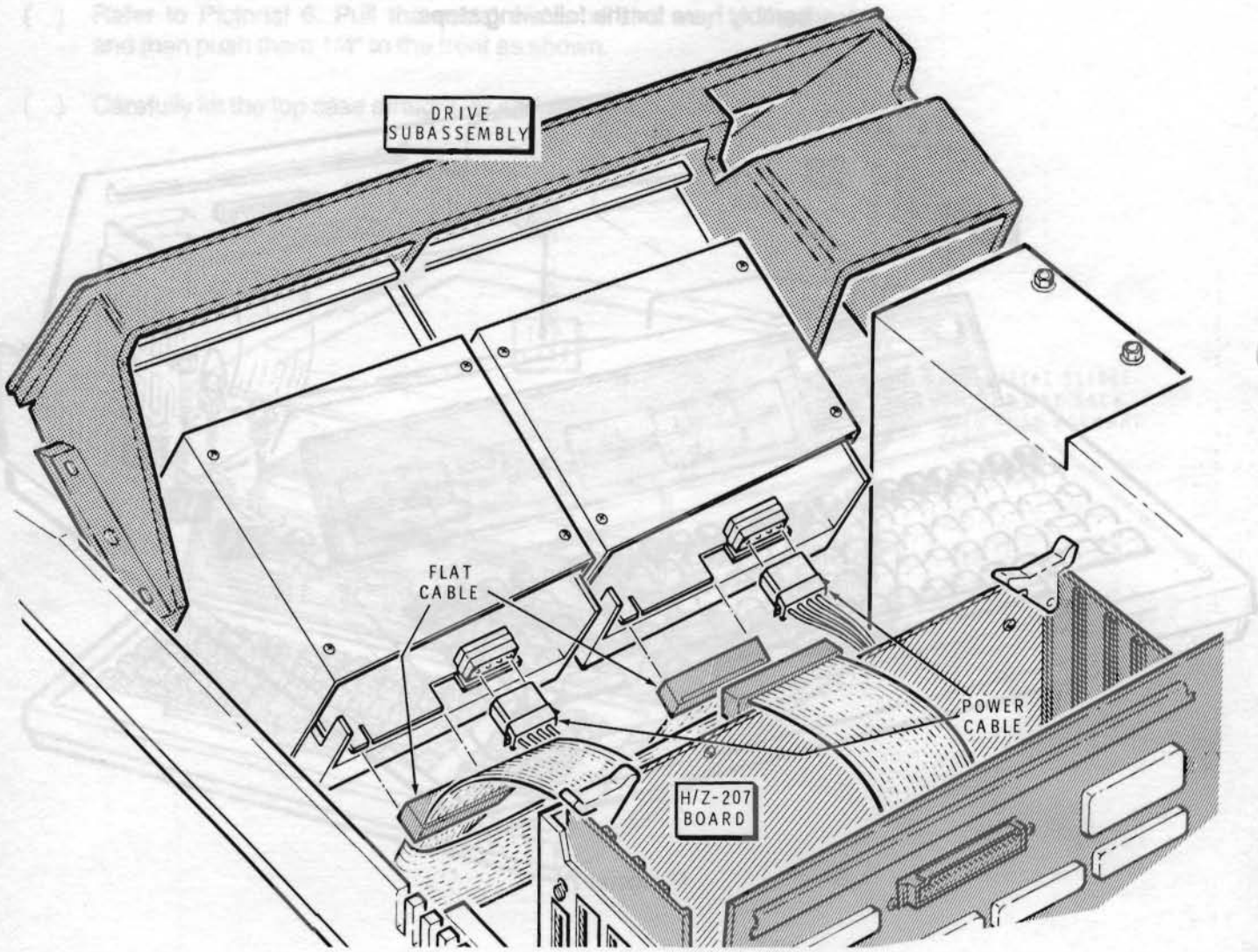
Pictorial 7

Disassembly

( ) Refer to Pictorial 8 and carefully unplug the flat cable from the disk drives as shown.

( ) Carefully unplug the power cables from each disk drive.

( ) Remove the drive subassembly and set it to one side.



Pictorial 8

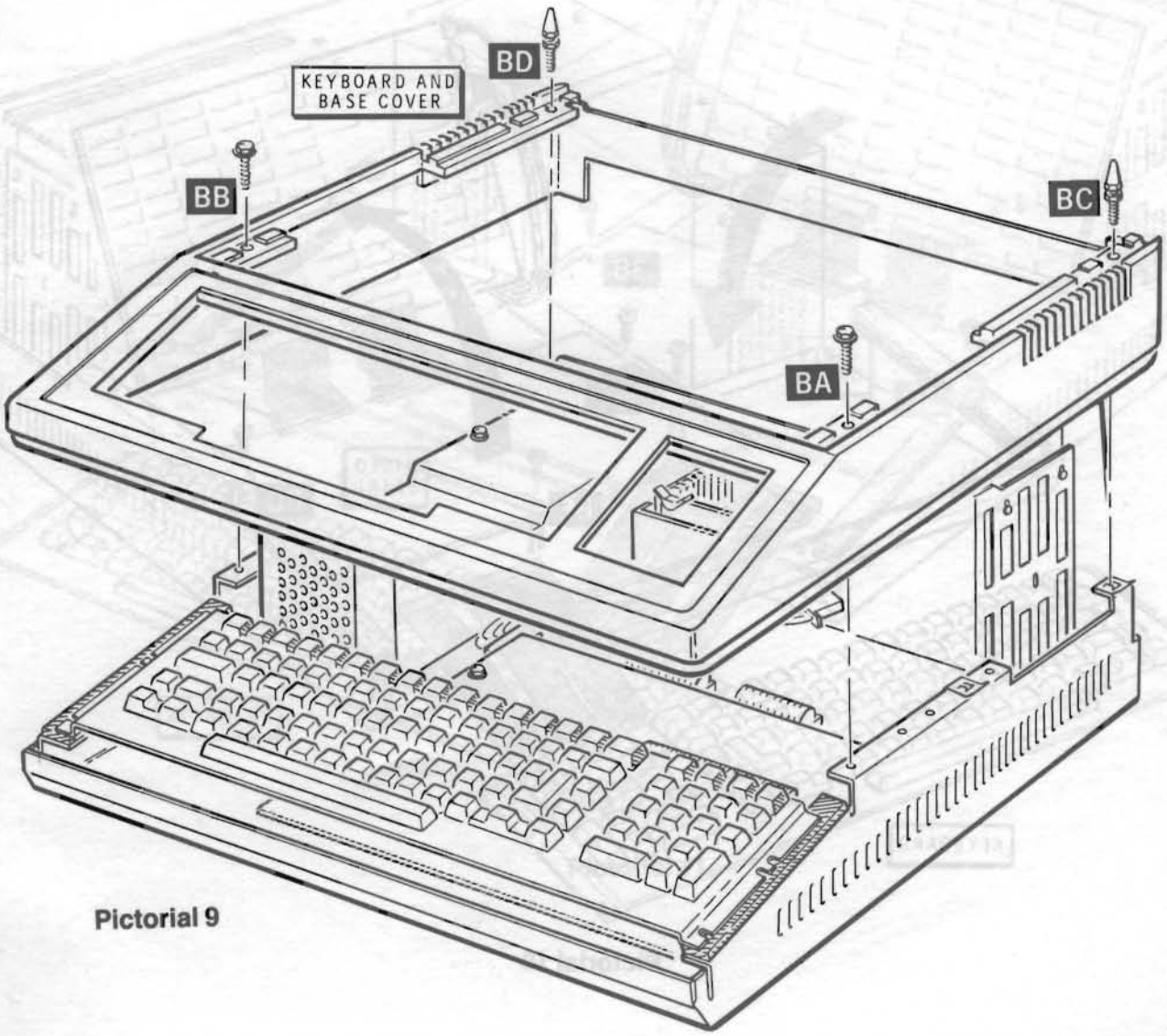
Disassembly

FINAL DISASSEMBLY (Both Models)

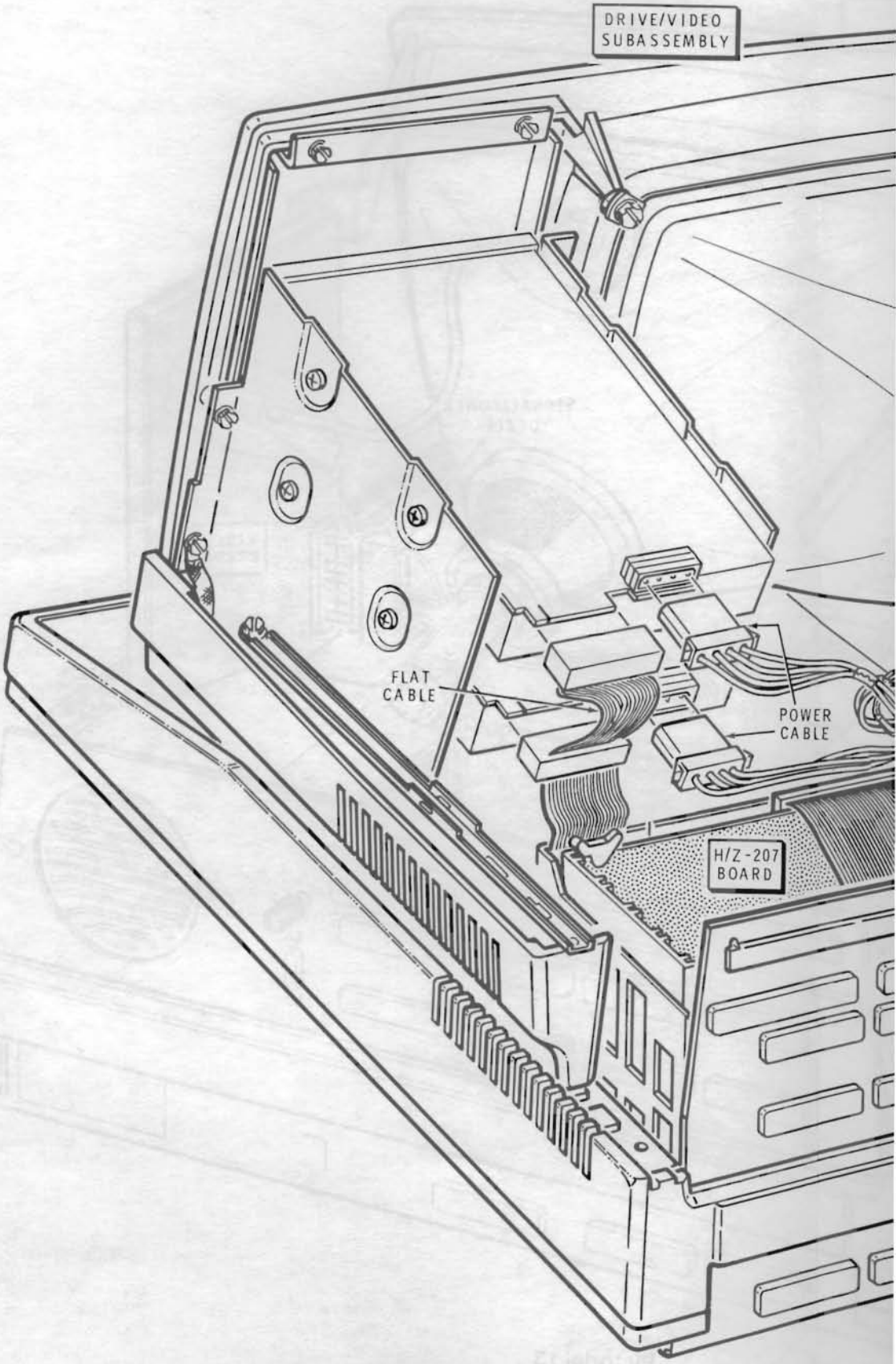
( ) Refer to Pictorial 9 and unscrew the two screws at positions BA and BB in the keyboard and base cover.

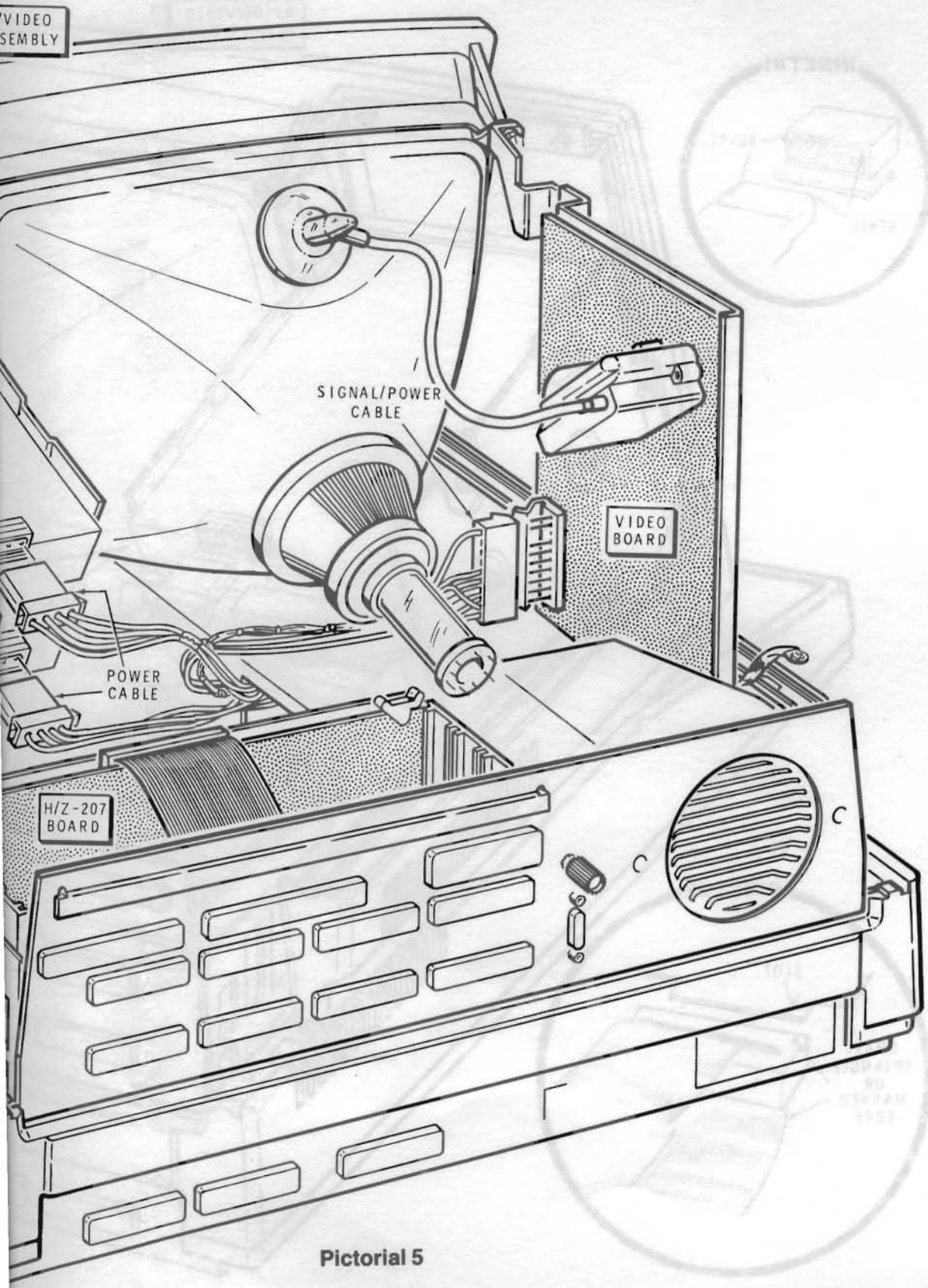
( ) (Low-profile models only) Remove the two locking pins at positions BC and BD.

( ) Remove the keyboard and base cover by lifting it up and to the back in order to clear the covers, controls and connectors on the back panel. Set it to one side.



Pictorial 9


DRIVE/VIDEO
SUBASSEMBLY
FLAT
CABLE
POWER
CABLE
H/Z-207
BOARD


VIDEO
SEMBLY
SIGNAL/POWER
CABLE
VIDEO
BOARD
POWER
CABLE
H/Z-207
BOARD

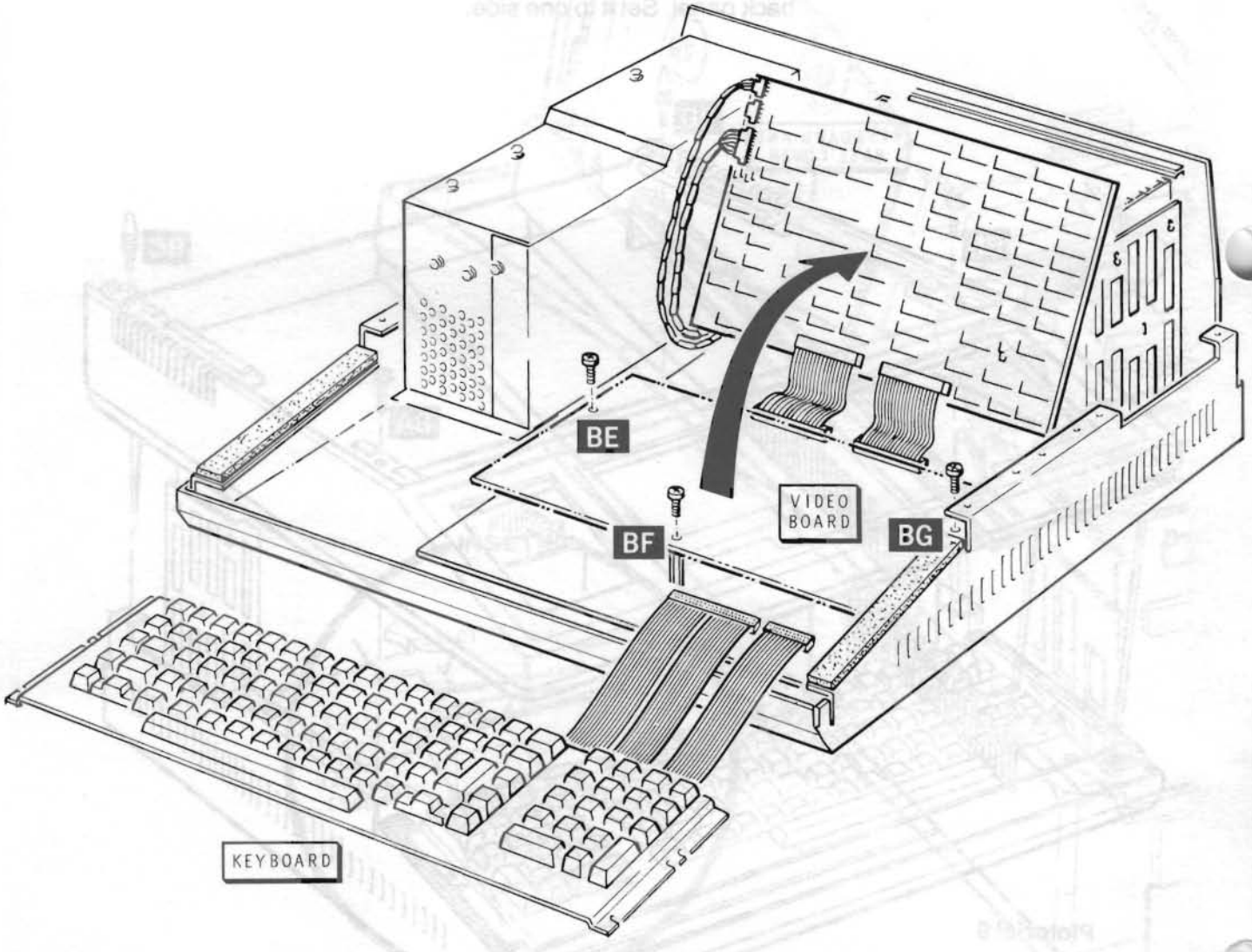
Pictorial 5

Disassembly

( ) Refer to Pictorial 10 and carefully lift the keyboard up and position it to the front of the Computer.

( ) Carefully remove the three screws at positions BE, BF and BG, in the Video circuit board.

( ) Return to the accessory "Installation Manual" and perform the installation steps for the accessory.

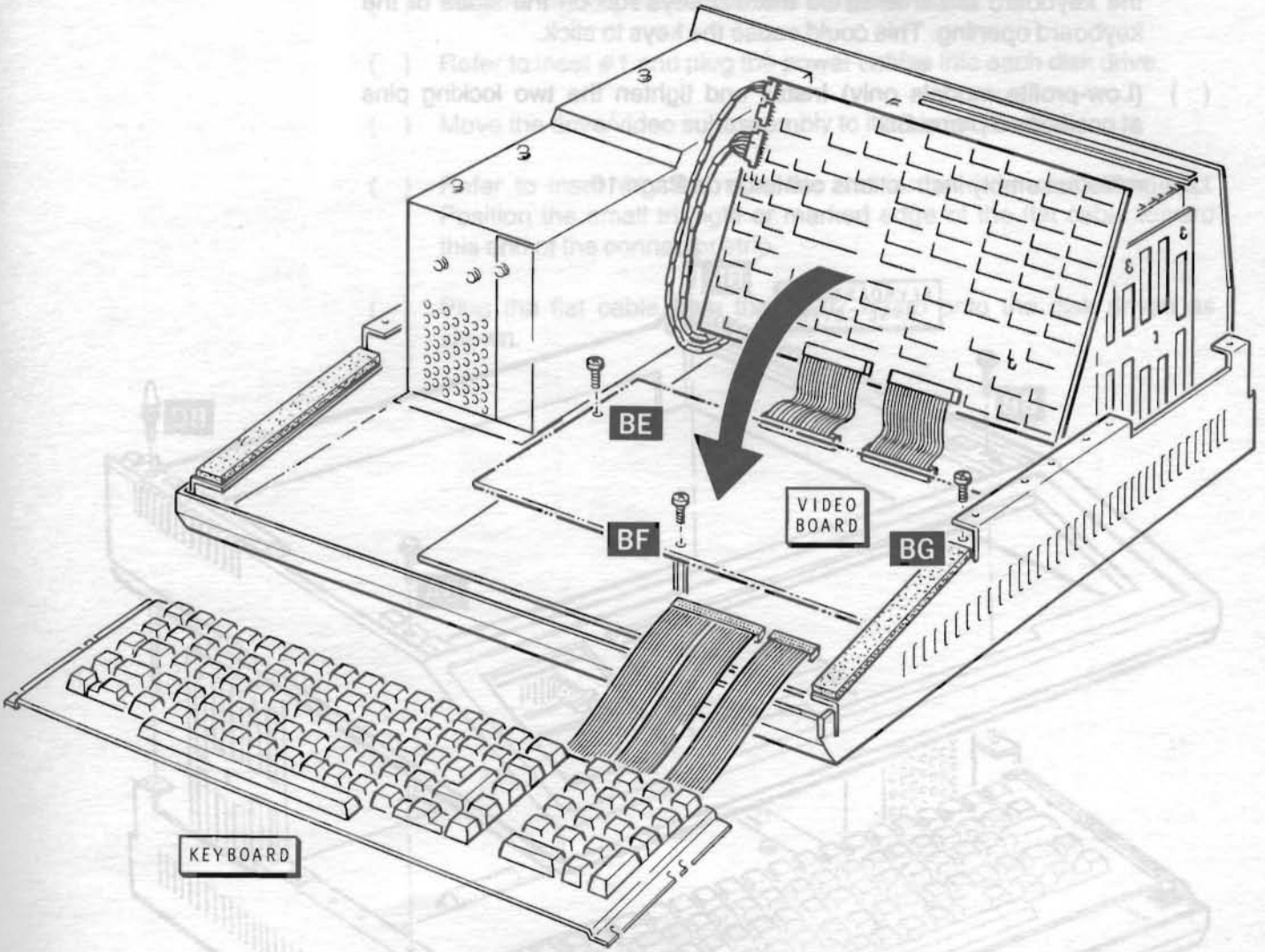


Pictorial 10

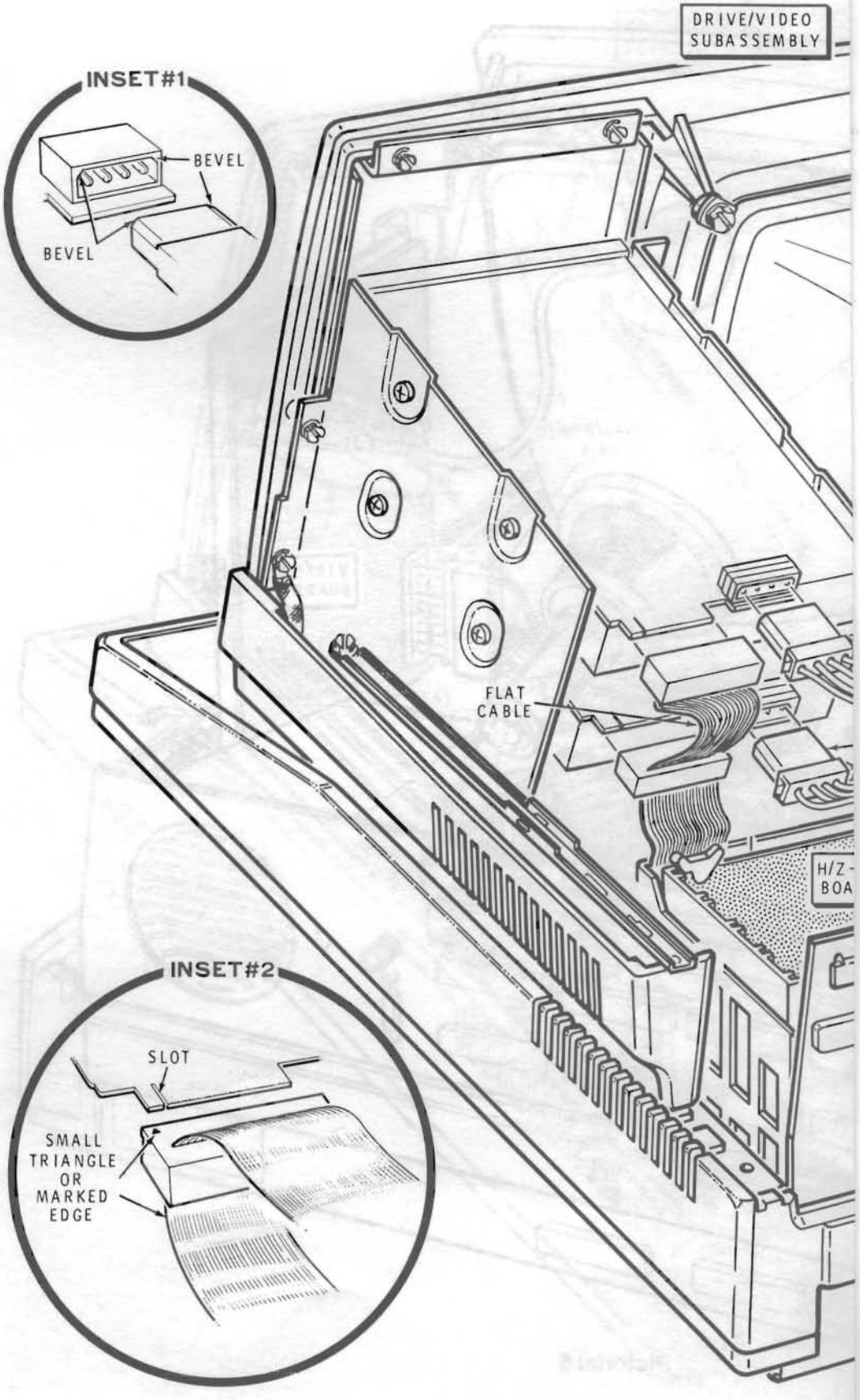
Assembly

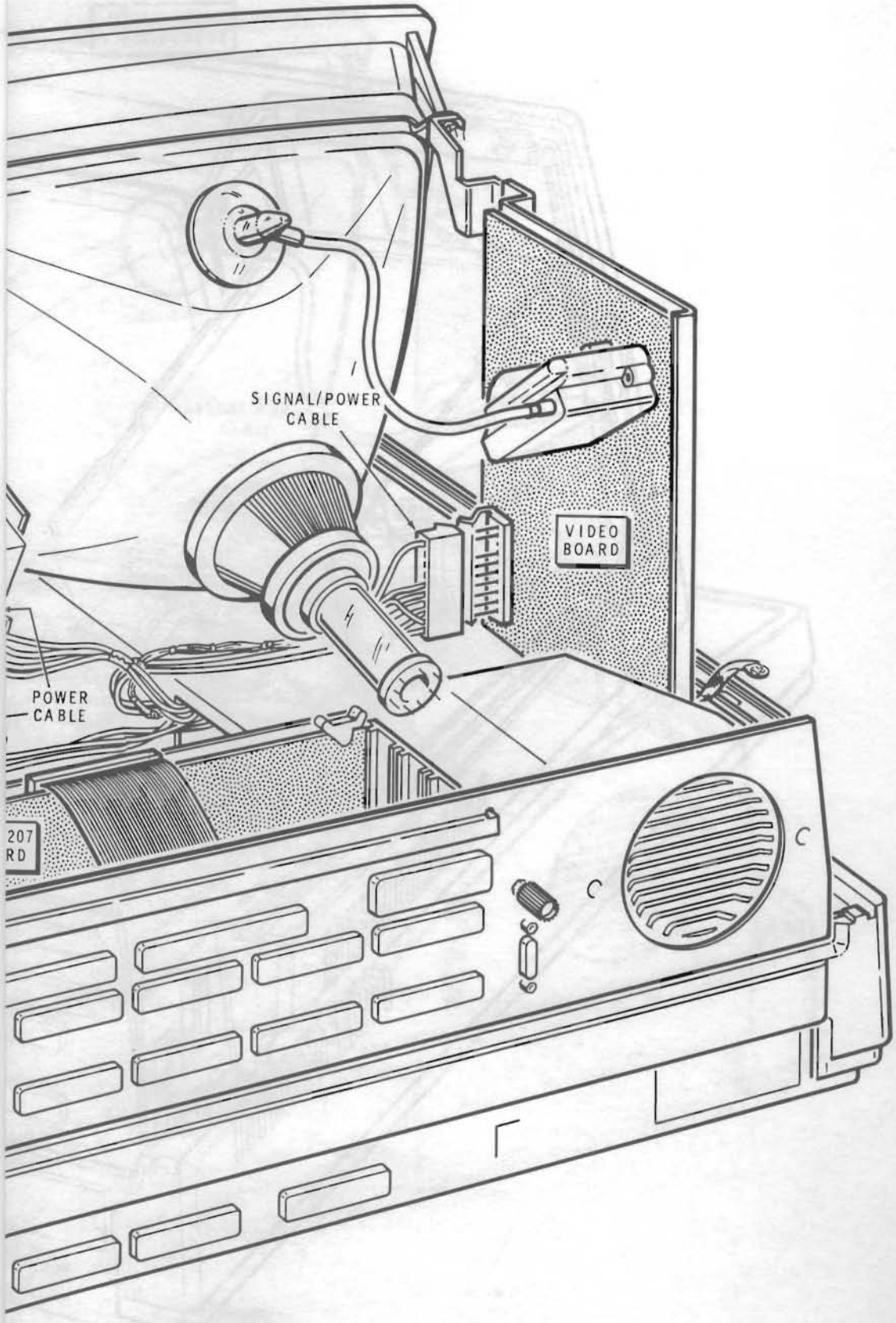
(BOTH MODELS)

( ) Refer to Pictorial 11 and reposition the video circuit board as shown. Install and tighten the three screws you removed earlier at positions BE, BF, and BG.



Pictorial 11


DRIVE/VIDEO
SUBASSEMBLY
INSET#1
BEVEL
BEVEL
FLAT
CABLE
H/Z-
BOA
INSET#2
SLOT
SMALL
TRIANGLE
OR
MARKED
EDGE



Pictorial 13

Assembly

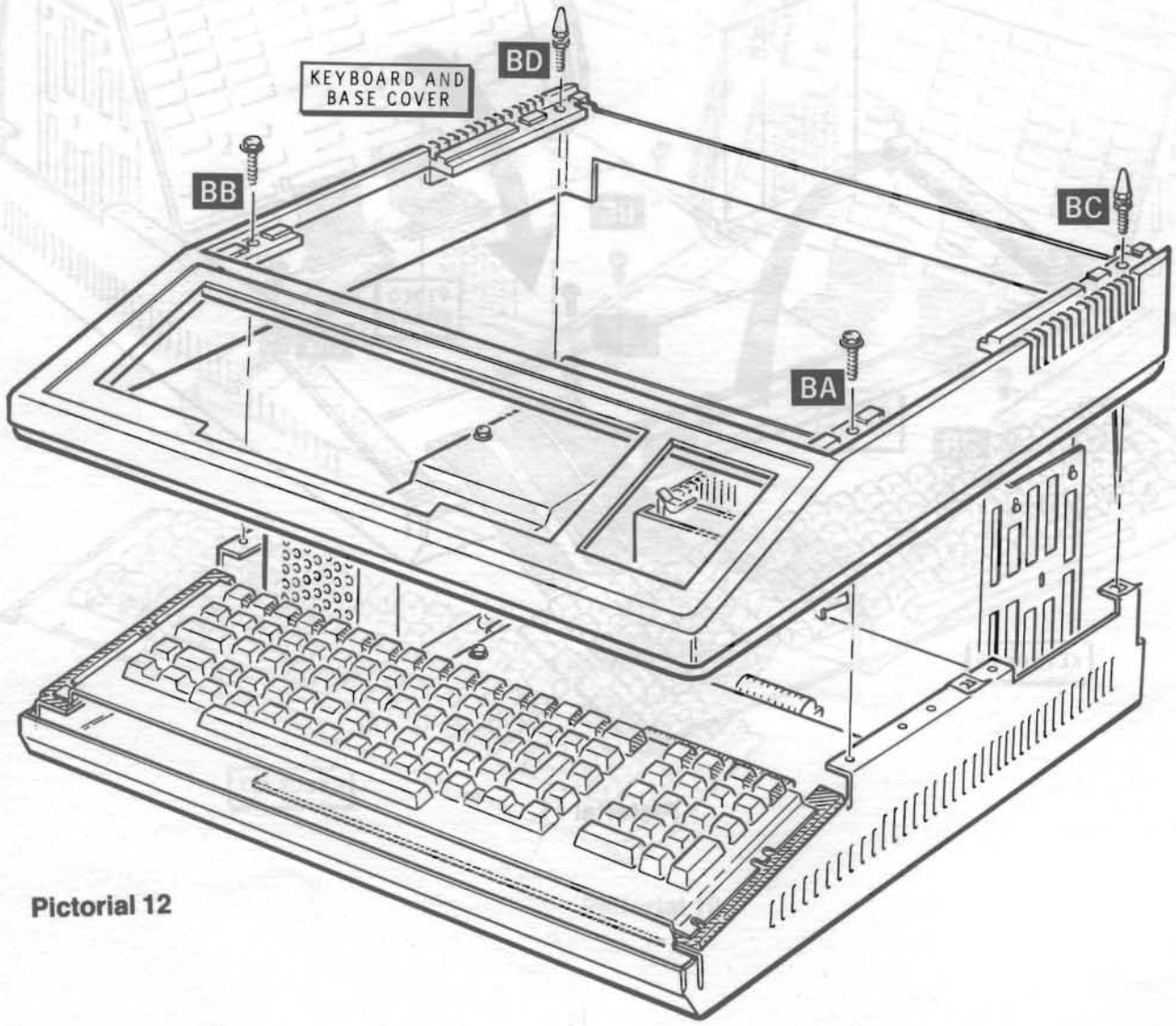
Refer to Pictorial 12 for the steps below.

( ) Position the keyboard on the base as shown.

( ) Replace the keyboard and base cover, and install and tighten the two screws you removed earlier at positions BA and BB. Make sure the keyboard is centered so that no keys rub on the sides of the keyboard opening. This could cause the keys to stick.

( ) (Low-profile models only) Install and tighten the two locking pins at positions BC and BD.

Low-profile assembly instructions continue on Page 16.



Pictorial 12

Assembly

(ALL-IN-ONE MODELS)

( ) Refer to Pictorial 13 (fold-out from Page 10) and rest the drive/video subassembly 4 to 5 inches in front of its normal position on the base.

( ) Plug the signal/power cable into the video board.

( ) Refer to inset #1 and plug the power cables into each disk drive.

( ) Move the drive/video subassembly to its normal position.

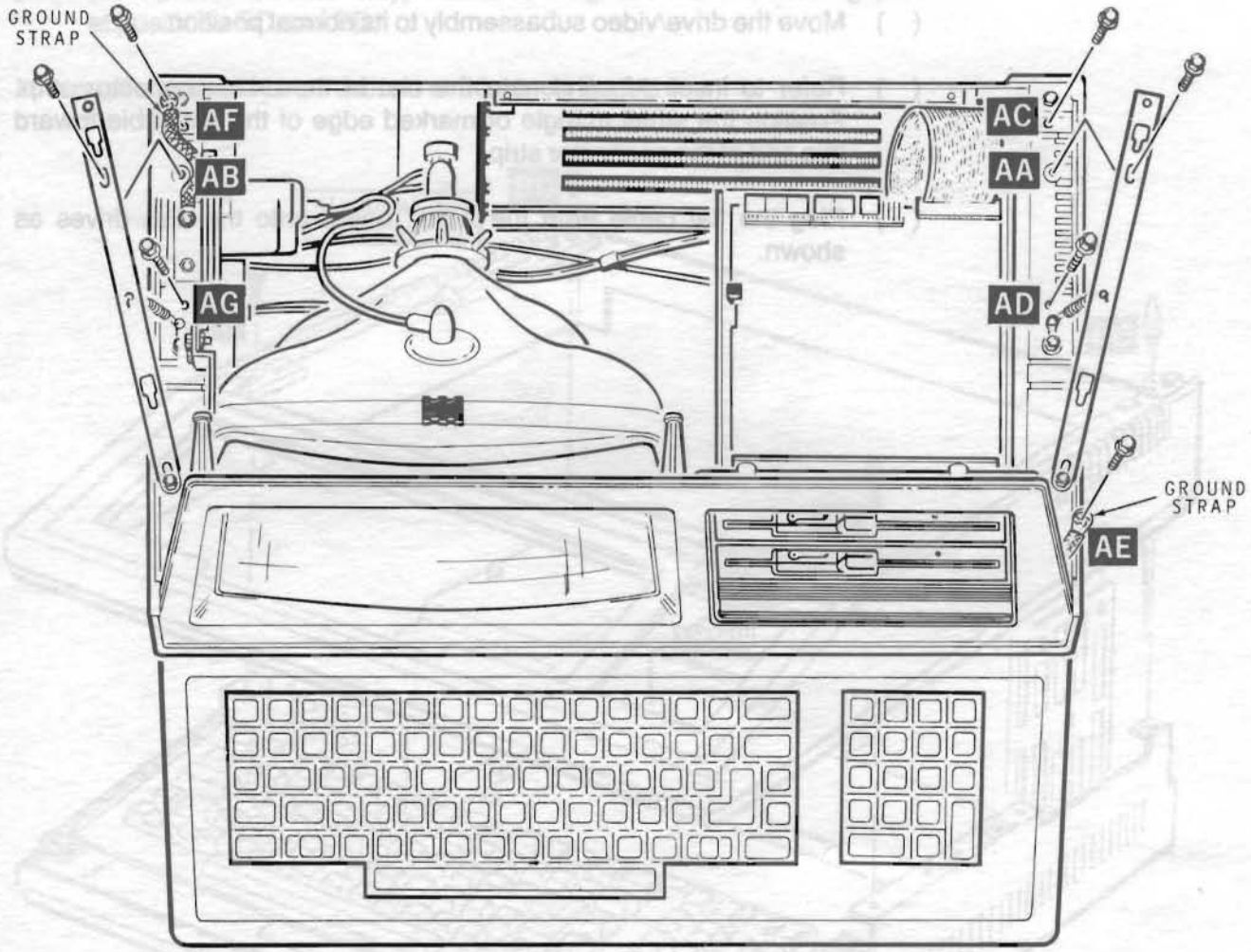
( ) Refer to inset #2, and note the slot in the drive connector strip. Position the small triangle or marked edge of the flat cable toward this end of the connector strip.

( ) Plug the flat cable from the Z-207 board onto the disk drives as shown.

Assembly

( ) Refer to Pictorial 14 and install and tighten the five screws at positions AC, AD, AE, AF, and AG. Be sure you replace the ground straps that were removed earlier with the screws at positions AE and AF.

( ) Return the latching slides to their normal position and replace the two screws, AA and AB. Make sure that the slides move freely; then slide them about 1/4" towards the rear of the Computer.

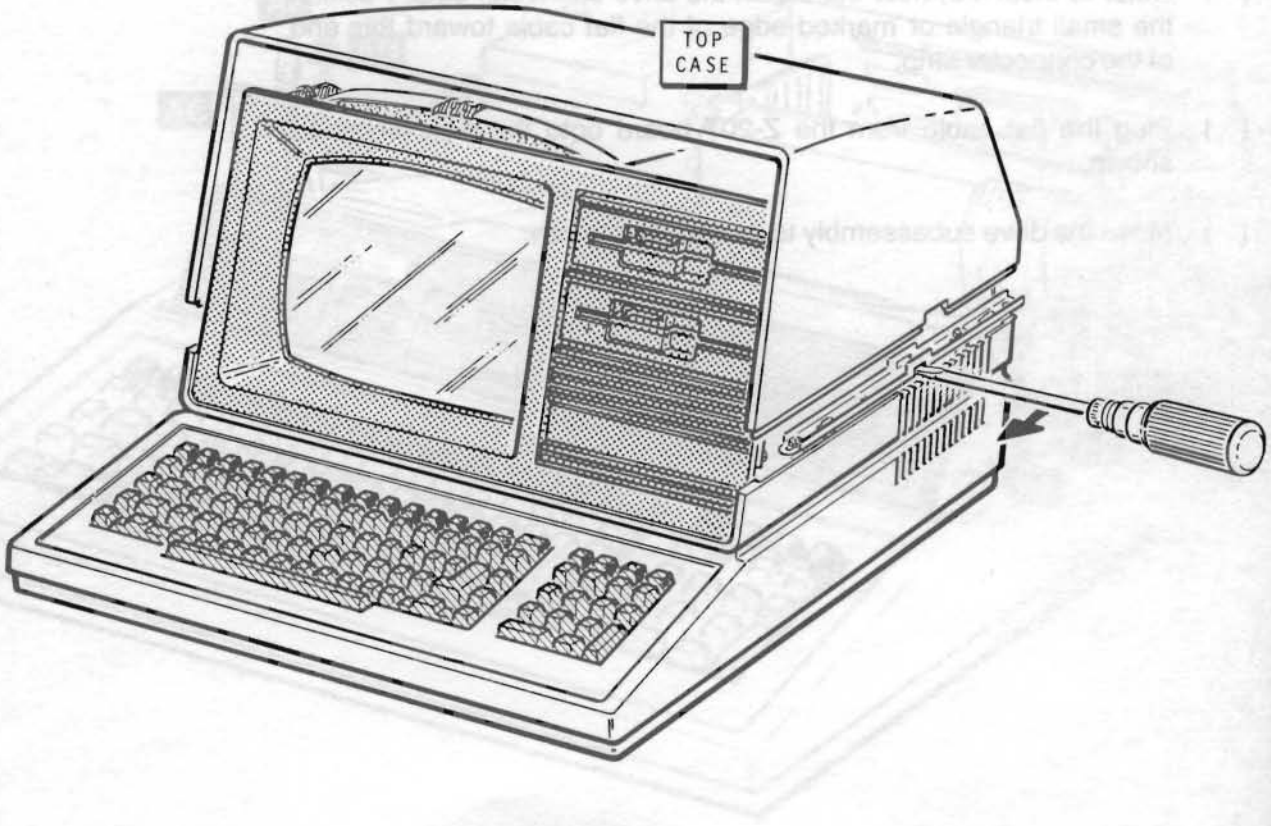


Pictorial 14

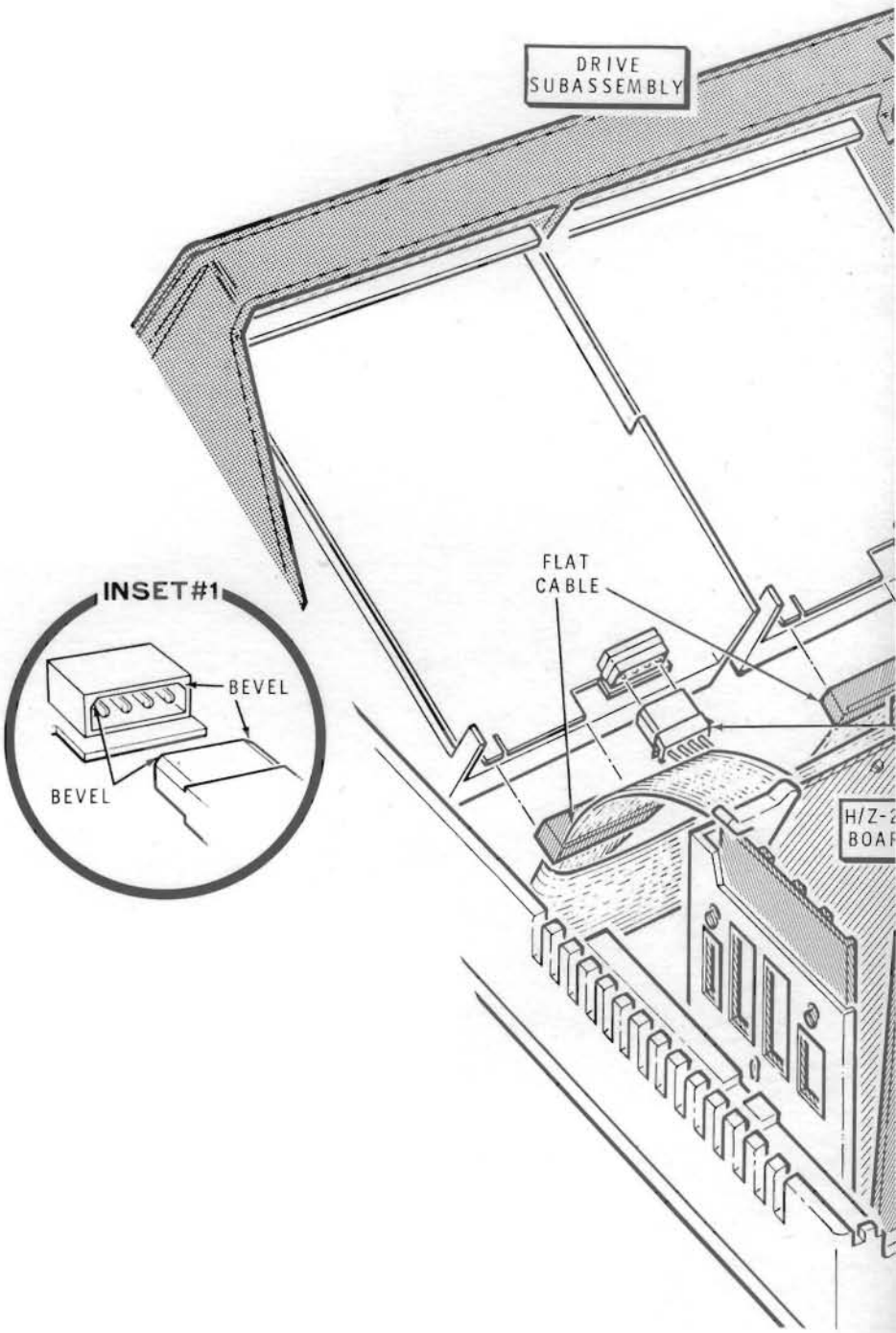
Assembly

( ) Refer to Pictorial 15. Replace the top case by bringing it straight down into its position, and slide the latches all the way to the front if they do not snap into place.

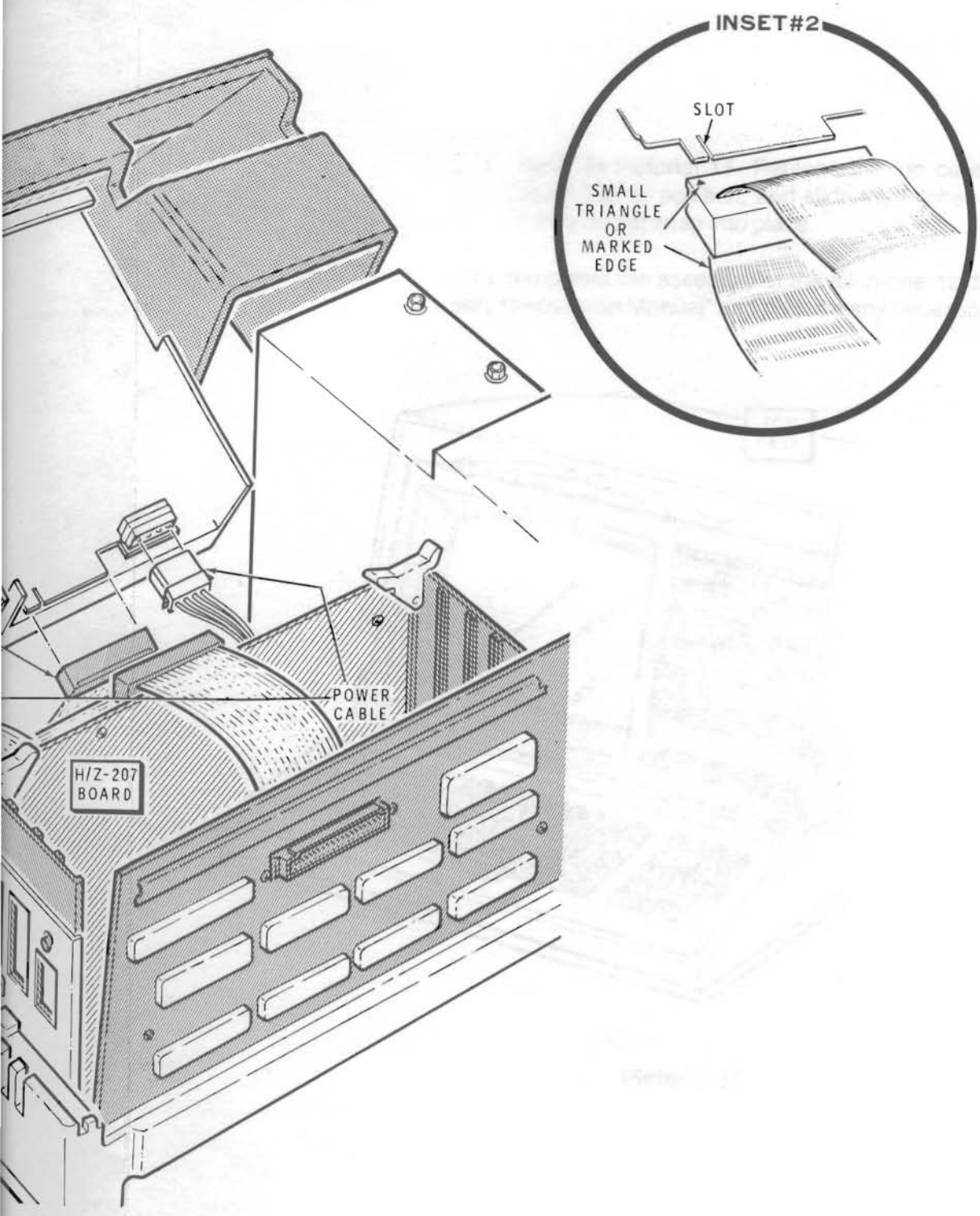
This completes the assembly of the all-in-one model. Return to the accessory "Installation Manual" and perform any necessary tests.



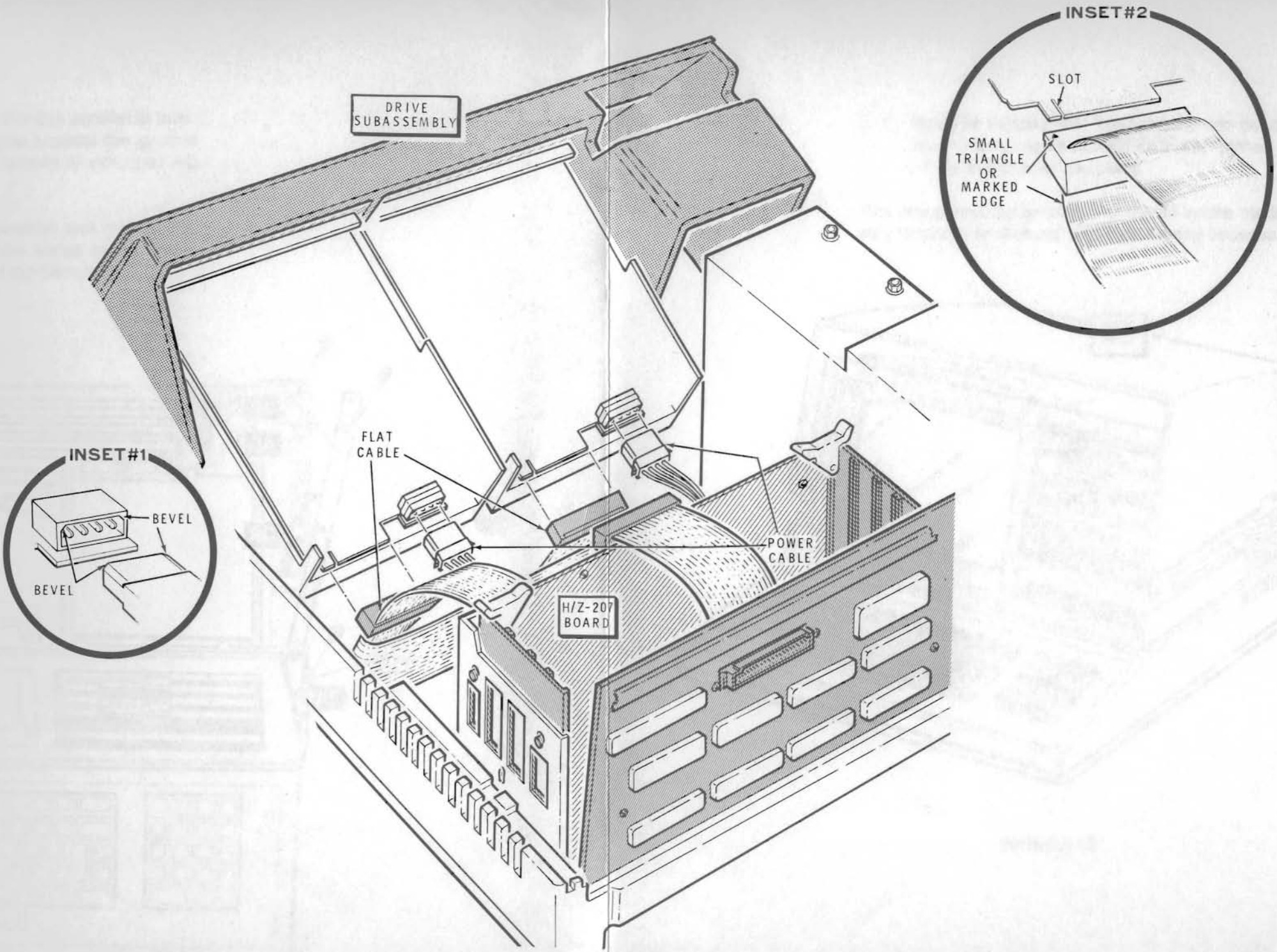
Pictorial 15



Pictor



Pictorial 16


INSET#2
SLOT
SMALL TRIANGLE OR MARKED EDGE
DRIVE SUBASSEMBLY
INSET#1
BEVEL
BEVEL
FLAT CABLE
POWER CABLE
H/Z-207 BOARD

Assembly

(LOW-PROFILE MODELS)

( ) Refer to Pictorial 16 (fold-out from this Page) and rest the drive subassembly about 2 inches in front of its normal position on the base.

( ) Refer to inset #1 and plug the power cables into each disk drive.

( ) Refer to inset #2, note the slot in the drive connector strip. Position the small triangle or marked edge of the flat cable toward this end of the connector strip.

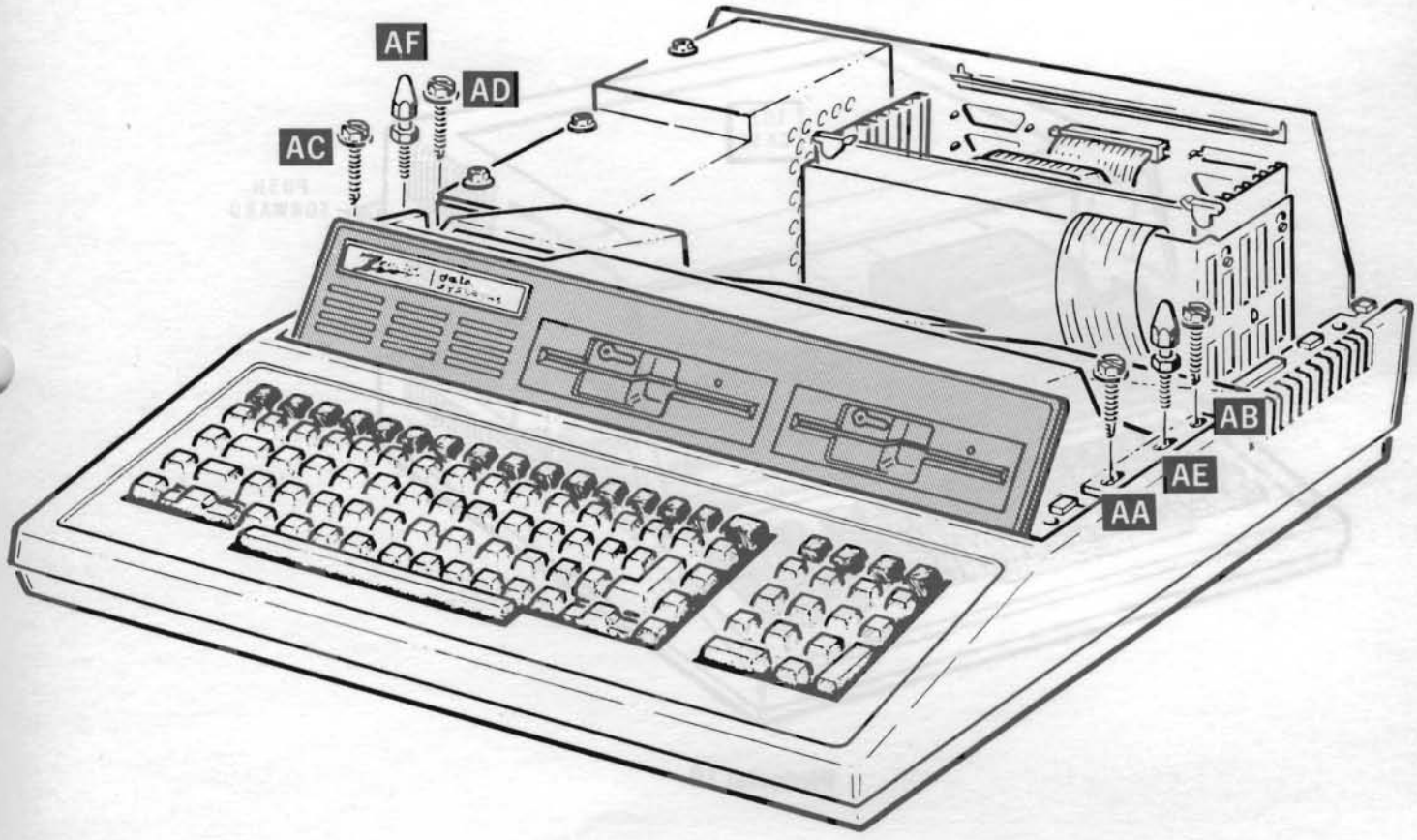
( ) Plug the flat cable from the Z-207 board onto the disk drives as shown.

( ) Move the drive subassembly to its normal position.

Assembly

( ) Refer to Pictorial 17 and install and tighten the four screws at positions AA, AB, AC, and AD.

( ) Install and tighten the two locking pins at AE and AF.

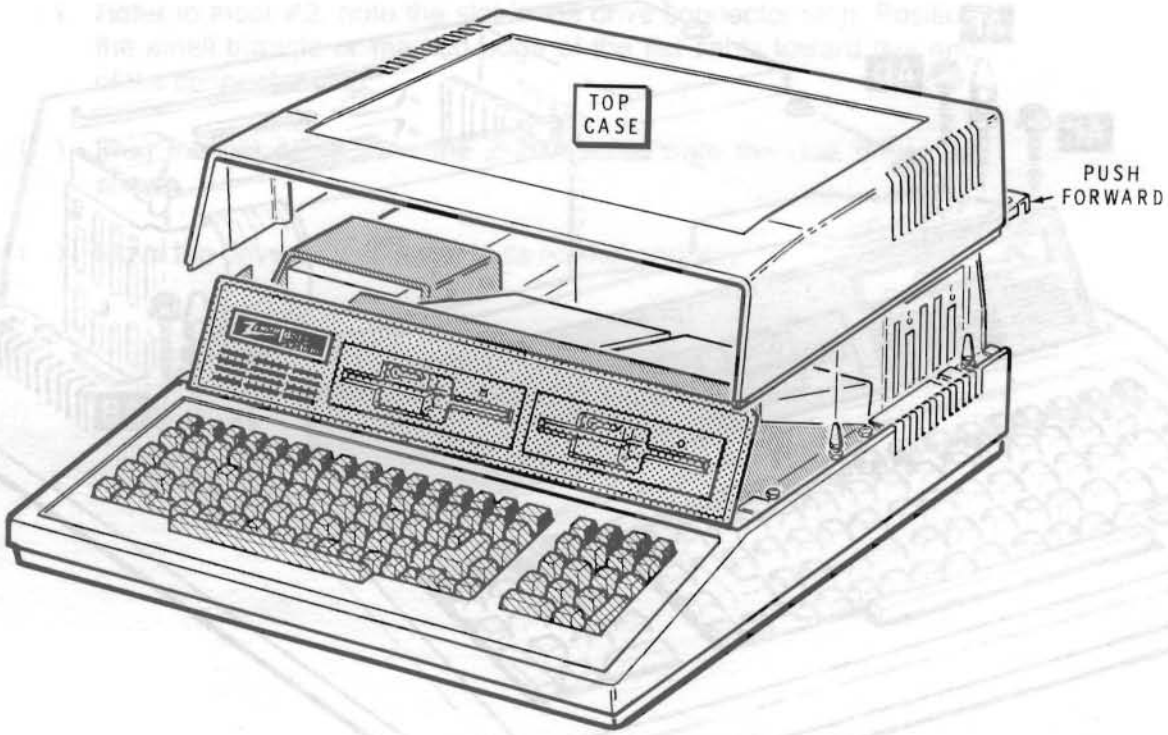


Pictorial 17

Assembly

( ) Refer to Pictorial 18. Replace the top case by bringing it straight down into its position. Push the latches all the way forward if they do not snap into place.

This completes the assembly of the low-profile model. Return to the accessory "Installation Manual" and perform any necessary tests.



Pictorial 18